

Appl. No. 10/605,790
Reply to Office action of January 14, 2008

Amendments to the Claims:

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 5 Claim 1 (currently amended): A method of changing the audible volume level of a digital signal comprising:
providing a destination volume value to a DSP; and
with the DSP, gradually incrementing the volume level of the digital signal by
10 a volume level increment to the destination volume value within a predetermined time period;
whereby any destination volume ~~designated by the destination volume value~~
is achieved in the digital signal in the same amount of time and a size
of the volume level increment is determined according to the
destination volume, the volume level of the digital signal, and the
15 predetermined time period.

- Claim 2 (original): The method of claim 1 wherein the incrementing step further
comprises:
gradually incrementing the digital signal within a predetermined sample
20 number corresponding to the predetermined time period.

- Claim 3 (currently amended): The method of claim 2 wherein the incrementing step
further comprises:
subtracting the current volume value of the digital signal from the destination
25 volume value;
dividing the result from the subtracting step by the predetermined sample
number to obtain a volume step;
incrementing the output signal by the volume step in a continuous fashion
until the volume destination is reached.

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Claim 4 (original): The method of claim 3 wherein the result from the subtracting step is a positive number.

5 Claim 5 (original): The method of claim 3 wherein the result from the subtracting step is a negative number.

Claim 6 (original): The method of claim 2 wherein the predetermined sample number is user-selectable.

10 Claim 7 (withdrawn): A Digital Signal Processor (DSP) for adjusting the volume of a digital signal stored in a data stream, the DSP comprising:
a processing unit for processing the data stream;
a first memory coupled to the processing unit for storing a destination
volume value; and
15 a second memory coupled to the processing unit for storing a
time_determining value;
wherein the processing unit adjusts the volume of the signal stored in the
data stream according to the time_determining value such that the
adjustment from a current volume value of the signal to the destination
20 volume value is accomplished within a predetermined time.

Claim 8 (withdrawn): The DSP in claim 7 further comprising a program memory
coupled to the processing unit for storing a program controlling the flow of
operations in the DSP.

25 Claim 9 (withdrawn): The DSP in claim 8 wherein the program memory comprises a
ROM type memory.

Claim 10 (withdrawn): The DSP in claim 7 wherein the first memory comprises a
30 register.

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Claim 11 (withdrawn): The DSP in claim 7 wherein the second memory comprises a register.

5 Claim 12 (withdrawn): The DSP in claim 7 further comprising a data memory for storing temporary variables.

Claim 13 (withdrawn): The DSP in claim 12 wherein the data memory comprises an SRAM type memory.

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Claim 14 (withdrawn): The DSP in claim 7 wherein the second memory stores a sample number corresponding to the predetermined time.

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